

## ABSTRACT OF THE INVENTION

An electrical mains-powered actuator designed to operate a closing, darkening or solar protection element, having in a common enclosure, a direct current motor, a board controlling the motor power supply and an AC/DC voltage converter, the control board including a radio-wave receiver, such that the voltage converter enables lowering of the voltage and includes at least one switch controlled at a frequency (F1) such that it is at most equal to twice the mains sector frequency or such that its ratio to the radio-wave receiver frequency (F0) ranges between  $2.2 \cdot 10^{-5}$  to  $2.2 \cdot 10^{-4}$ .